Panasonic

55-inch Class FULL HD LED LCD Display

# TH-55LF60U

## Product specification (design and specification subject to change without notice)

### ■DISPLAY PANEL

| | |
|---|---|
| Screen Size (Diagonal) | 54.6-inch (1,387 mm) |
| Panel type | IPS/E-LED |
| Aspect ratio | 16:9 |
| Effective Display Area (W x H ) | 47.6" x 26.7" (1,209 x 680 mm) |
| Number of pixels (H x V) | 1920 x 1080 pixels |
| Brightness | 700 cd/㎡ |
| Contrast Ratio | 1300:1 |
| Response Time | 12 ms (G to G) |
| Viewing Angle (Horizontal/Vertical) | 178˚/178˚ |

### ■CONNECTION TERMINAL

| | | |
|---|---|---|
| VIDEO IN | BNC x 1 | 1.0 Vp-p (75Ω) |
| AUDIO IN (L/R) | RCA pin (L/R) x 1 set | 0.5 Vrms |
| HDMI IN | HDMI TYPE A x 2 | |
| Component IN | BNC x 1 set | Y : 1.0 Vp-p (75Ω)<br>$P_B$ : 0.7 Vp-p (75Ω)<br>$P_R$ : 0.7 Vp-p (75Ω) |
| AUDIO IN (L/R) | RCA pin (L/R) x 1 set | 0.5 Vrms |
| DVI-D IN | DVI-D 24pin x 1 | Compliance with DVI Revision 1.0<br>Compatible with HDCP 1.1 |
| AUDIO IN (L/R) | M3 jack x 1 (Shared with PC IN) | 0.5 Vrms |
| PC IN | Mini D-sub 15pin x 1 (female) | Y/G : with sync 1.0 Vp-p (75Ω)<br>: without sync 0.7 Vp-p (75Ω)<br>$P_B/C_B$/B : 0.7 Vp-p (75Ω)<br>$P_R/C_R$/R : 0.7 Vp-p (75Ω)<br>HD/VD : 1.0 - 5.0 Vp-p (high impedance) |
| AUDIO IN (L/R) | M3 jack x 1 (Shared with DVI-D IN) | 0.5 Vrms |
| DVI-D OUT | DVI-D 24pin x 1 | Compliance with DVI Revision 1.0<br>Compatible with HDCP 1.1 |

### ■CONTROL

| | |
|---|---|
| SERIAL IN / OUT | D-sub 9pin x 1 / x 1, RS-232C Compatible |
| DIGITAL LINK | RJ45 x 1 (Shared with LAN) |
| LAN | RJ45 x 1 10BASE-T/100BASE-TX (Shared with DIGITAL LINK) |
| IR IN / OUT | IR x 1 / x 1 |

### ■AUDIO

| | |
|---|---|
| Line out (VAO) | M3 jack x 1 |
| Built in Speaker | 10 W [5 W + 5 W] |

### ■ELECTRICAL

| | |
|---|---|
| Power Requirements | 110-127 V AC, 50Hz/60Hz |
| Power Consumption | 150 W |
| Power off condition | 0.3 W |
| Stand-by condition | 0.5 W |

### ■MECHANICAL

| | |
|---|---|
| Dimensions (W x H x D) | 49.1" x 28.3" x 2.7" (1,248 x 718 x 68 mm) |
| Bezel Width | 0.7" (16 mm) |
| Carton Dimensions (W x H x D) | 55.6" x 37.0" x 8.1" (1411 x 940 x 204 mm) |
| Weight | approx. 56.9 lbs. (25.8 kg) |
| Gross weight | approx. 69.5 lbs. (31.5 kg) |
| Cabinet Material / Color | Plastic / Black |
| Pitch for Wall-Hanging | VESA Compliant 15.8" x 15.8" (400 x 400 mm) |
| Ceiling Suspention | Yes |

### ■ENVIRONMENTAL

| | | |
|---|---|---|
| Operating environment | Temperature | : 32˚F to 104˚F (0℃ to 40℃) |
| | Humidity | : 20% to 80% (Non condensation) |
| Storage environment | Temperature | : -4˚F to 140˚F (-20℃ to 60℃) |
| | Humidity | : 20% to 80% (Non condensation) |

### ■REMOTE CONTROL TRANSMITTER

| | |
|---|---|
| Power Requirements | DC 3V (2 x AA Size batteries) |
| Operating distance | approx. 32 ft (7 m) in front of LCD Display |
| Weight | approx. 3.5 oz (100 g) including batteries |

| | |
|---|---|
| UPC Code | 885170121621 |

© Panasonic Corporation 2013

## MAIN FEATURE

| | |
|---|---|
| Digital Zoom | Yes (x1～x4) |
| Video Wall | Yes (N x M, up to 5 x 5) |
| Daisy Chain | Yes |
| 1:1 Pixel mode | Yes |
| Automatic Picture Position | Yes |
| Screen Saver | Yes |
| PC/DVI Power Management | Yes |
| ECO mode | Yes |
| Button / Input lock | Yes |
| Orientation Landscape / Portrait | Yes |
| Remote-control User Level | Yes |
| Power-on Screen Delay | Yes |
| Seam Hides Video Off Mode | Yes |
| DVI-D Power Management | Yes |
| Input Search | Yes |
| Ceiling-Suspension | Yes |
| Operating Time | 24h/7d |

In case of running for a long time, the moving image is recommended to be displayed. If you display a still picture for an extended period, the image retention might remain on the screen. However, image retention can gradually disappear by displaying a moving images.

## OPTIONAL ACCESSORIES

| | |
|---|---|
| Pedestal | TY-ST58P20 |

## STANDARD (CERTIFICATIONS)

| | |
|---|---|
| SAFETY REGULATIONS | UL60065,<br>CAN/CSA-22.2 No60065-03 |
| RADIATION REGULATIONS | FCC Part 15 Subpart B Class-B,<br>ICES-003 |

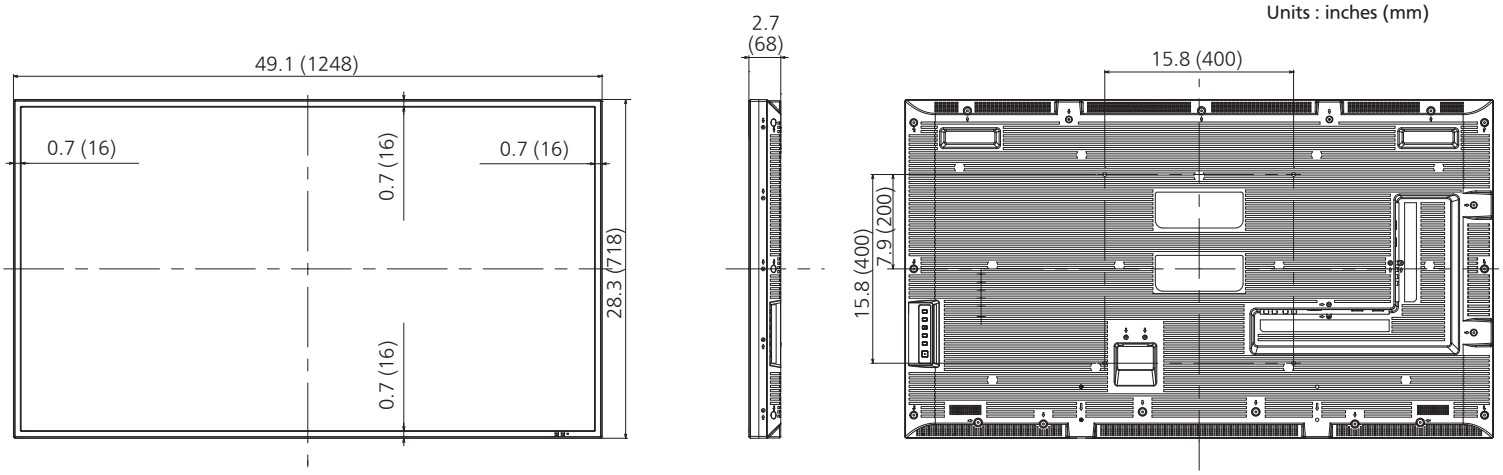
## INCLUDED ACCESSORIES

- Operating instruction book - CD-ROM (Operating instruction)
- Remoto control transmitter - Batteries (AA x 2) - Cramper x 3
- AC power cord

## DIMENSIONS

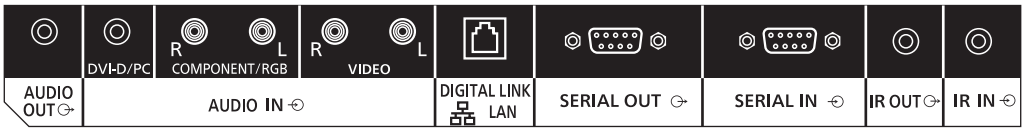
Cautions: This drawing is not a scale

Units : inches (mm)

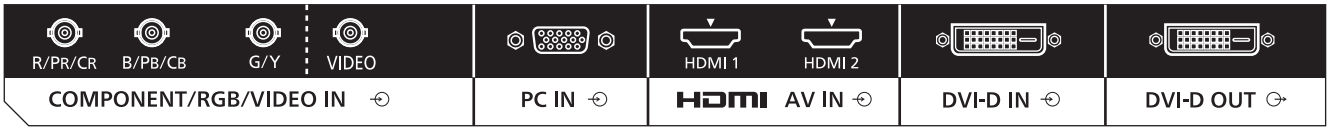



## CONNECTION TERMINAL

SIDE




BOTTOM




© Panasonic Corporation 2013

## APPLICABLE INPUT SIGNALS

| | Signal name | Horizontal frequency (kHz) | Vertical frequency (Hz) | VIDEO IN | COMPONENT IN RGB IN/PC IN (Dot clock (MHz)) | DVI-D IN (Dot clock (MHz)) | HDMI 1 HDMI 2 |
|---|---|---|---|---|---|---|---|
| 1 | NTSC | 15.73 | 59.94 | Y | | | |
| 2 | PAL | 15.63 | 50.00 | Y | | | |
| 3 | PAL60 | 15.73 | 59.94 | Y | | | |
| 4 | SECAM | 15.63 | 50.00 | Y | | | |
| 5 | NTSC 4.43 | 15.73 | 59.94 | Y | | | |
| 6 | PAL M | 15.73 | 59.94 | Y | | | |
| 7 | PAL N | 15.63 | 50.00 | Y | | | |
| 8 | 525 (480) / 60i | 15.73 | 59.94 | | * (13.5) | * (27.0) | * |
| 9 | 525 (480) / 60p | 31.47 | 59.94 | | * (27.0) | * (27.0) | * |
| 10 | 625 (575) / 50i | 15.63 | 50.00 | | * (13.5) | | |
| 11 | 625 (576) / 50i | 15.63 | 50.00 | | | * (27.0) | * |
| 12 | 625 (575) / 50p | 31.25 | 50.00 | | * (27.0) | | |
| 13 | 625 (576) / 50p | 31.25 | 50.00 | | | * (27.0) | * |
| 14 | 750 (720) / 60p | 45.00 | 60.00 | | * (74.25) | * (74.25) | * |
| 15 | 750 (720) / 50p | 37.50 | 50.00 | | * (74.25) | * (74.25) | * |
| 16 | 1,125 (1,080) / 60p | 67.50 | 60.00 | | * (148.5) *1 | * (148.5) | * |
| 17 | 1,125 (1,080) / 60i | 33.75 | 60.00 | | * (74.25) *1 | * (74.25) | * |
| 18 | 1,125 (1,080) / 50p | 56.26 | 50.00 | | * (148.5) *1 | * (148.5) | * |
| 19 | 1,125 (1,080) / 50i | 28.13 | 50.00 | | * (74.25) *1 | * (74.25) | * |
| 20 | 1,125 (1,080) / 24sF | 27.00 | 48.00 | | * (74.25) *2 | | |
| 21 | 1,125 (1,080) / 30p | 33.75 | 30.00 | | * (74.25) *1 | * (74.25) | |
| 22 | 1,125 (1,080) / 25p | 28.13 | 25.00 | | * (74.25) *1 | * (74.25) | |
| 23 | 1,125 (1,080) / 24p | 27.00 | 24.00 | | * (74.25) *1 | * (74.25) | * |
| 24 | 640 × 400 @70 Hz | 31.46 | 70.07 | | * (25.17) | | |
| 25 | 640 × 480 @60 Hz | 31.47 | 59.94 | | * (25.18) | * (25.18) | * |
| 26 | 640 × 480 @72 Hz | 37.86 | 72.81 | | * (31.5) | | |
| 27 | 640 × 480 @75 Hz | 37.50 | 75.00 | | * (31.5) | | |
| 28 | 640 × 480 @85 Hz | 43.27 | 85.01 | | * (36.0) | | |
| 29 | 800 × 600 @56 Hz | 35.16 | 56.25 | | * (36.0) | | |
| 30 | 800 × 600 @60 Hz | 37.88 | 60.32 | | * (40.0) | * (40.0) | * |
| 31 | 800 × 600 @72 Hz | 48.08 | 72.19 | | * (50.0) | | |
| 32 | 800 × 600 @75 Hz | 46.88 | 75.00 | | * (49.5) | | |
| 33 | 800 × 600 @85 Hz | 53.67 | 85.06 | | * (56.25) | | |
| 34 | 852 × 480 @60 Hz | 31.47 | 59.94 | | * (33.54) | * (34.24) | * |
| 35 | 1,024 × 768 @50 Hz | 39.55 | 50.00 | | | * (51.89) | * |
| 36 | 1,024 × 768 @60 Hz | 48.36 | 60.00 | | * (65.0) | * (65.0) | * |
| 37 | 1,024 × 768 @70 Hz | 56.48 | 70.07 | | * (75.0) | | |
| 38 | 1,024 × 768 @75 Hz | 60.02 | 75.03 | | * (78.75) | | |
| 39 | 1,024 × 768 @85 Hz | 68.68 | 85.00 | | * (94.5) | | |
| 40 | 1,066 × 600 @60 Hz | 37.64 | 59.94 | | * (53.0) | * (53.0) | * |
| 41 | 1,152 × 864 @60 Hz | 53.70 | 60.00 | | | * (81.62) | * |
| 42 | 1,152 × 864 @75 Hz | 67.50 | 75.00 | | * (108.0) | | |
| 43 | 1,280 × 768 @60 Hz | 47.70 | 60.00 | | * (80.14) | | |
| 44 | 1,280 × 960 @60 Hz | 60.00 | 60.00 | | * (108.0) | | |
| 45 | 1,280 × 960 @85 Hz | 85.94 | 85.00 | | * (148.5) | | |
| 46 | 1,280 × 1,024 @60 Hz | 63.98 | 60.02 | | * (108.0) | * (108.0) | * |
| 47 | 1,280 × 1,024 @75 Hz | 79.98 | 75.03 | | * (135.0) | | |
| 48 | 1,280 × 1,024 @85 Hz | 91.15 | 85.02 | | * (157.5) *3 | | |
| 49 | 1,366 × 768 @50 Hz | 39.55 | 50.00 | | | * (69.92) | * |
| 50 | 1,366 × 768 @60 Hz | 48.36 | 60.00 | | * (86.71) | * (87.44) | * |
| 51 | 1,400 × 1,050 @60 Hz | 65.22 | 60.00 | | | * (122.61) | * |
| 52 | 1,600 × 1,200 @60 Hz | 75.00 | 60.00 | | * (162.0) | * (162.0) | * |
| 53 | 1,920 × 1,080 @60 Hz | 67.50 | 60.00 | | * (148.5) | * (148.5) | * |
| 54 | 1,920 × 1,200 @60 Hz | 74.04 | 59.95 | | | * (154.0) | * |
| 55 | Macintosh13" (640 × 480) | 35.00 | 66.67 | | * (30.24) | | |
| 56 | Macintosh16" (832 × 624) | 49.72 | 74.54 | | * (57.28) | | |
| 57 | Macintosh21" (1,152 × 870) | 68.68 | 75.06 | | * (100.0) | | |

*1:Based on SMPTE 274M standard.
*2:Based on SMPTE RP211 standard.
*3:Not compatible with SYNC ON G.
・ The signal format automatically detected may differ from the actual input signal in display.

© Panasonic Corporation 2013